



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,286	01/22/2002	Mary F. Parker	TAMC00-25 01	4762
27370	7590 03/23/2005		EXAMINER	
* *-	THE STAFF JUDGE	ROY, BAISAKHI		
*	MEDICAL RESEARCH IR-JA (MS. ELIZABET	AND MATERIEL COMMAND 'H ARWINE)	ART UNIT	PAPER NUMBER
504 SCOTT STREET		3737		
FORT DETR	ICK, MD 21702-5012			_

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			\hookrightarrow			
	Application No.	Applicant(s)				
	10/051,286	PARKER ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Baisakhi Roy	3737				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet	with the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may be by within the statutory minimum of the dwill apply and will expire SIX (6) Mounts, cause the application to become	a reply be timely filed hirty (30) days will be considered timely ONTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	•					
	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal ma	atters, prosecution as to the	merits is			
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-4 is/are pending in the application	I.	•				
4a) Of the above claim(s) is/are withdr	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examir	ner.					
10)⊠ The drawing(s) filed on <u>22 January 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the I	Examiner. Note the attach	ed Office Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bure 	nts have been received. nts have been received in iority documents have bee	Application No	Stage			
* See the attached detailed Office action for a list		ot received.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date				
 2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		o(s)/Mail Date: If Informal Patent Application (PTC)-152)			
Paper No(s)/Mail Date <u>9/24/03, 2/14/03</u> .	6) Other: _	<u></u>				

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

If applicant is employing means plus function language in a claim, applicant must explicitly state with reference to the terms and phrases of the claim element, what structure, materials, or acts perform the function recited in the claim element. In this case, applicant needs to show what is meant by the means plus function language by providing adequate explanation in the disclosure for the specific structural component of the input processor 210, classifier 250, and image processor 270 as the means for carrying out the normalization, extraction, compression, classification, and image processing procedure. See MPEP 2181.

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 3737

Applicant must set forth an adequate disclosure showing what is meant by the means plus function language by providing adequate explanation in the disclosure for the specific structural component of the input processor 210, classifier 250, and image processor 270 as the means for carrying out the normalization, extraction, compression, classification, and image processing procedure. If an applicant fails to set forth an adequate disclosure, the applicant has in effect failed to particularly point out and distinctly claim the invention as required by the second paragraph of section 112. See MPEP 2181.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Application/Control Number: 10/051,286 Page 4

Art Unit: 3737

6. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Bambot et al. (2003/0135122). Bambot et al. disclose a method an apparatus including a computer program for generating a two dimensional histological map of a cervix from a 3-dimensional hyperspectral data cube by scanning the cervix (fig. 60A/B, [0178], claim 57). Bambot et al. teach executing said method with an input processor (fig. 1 # 44) constructed to normalize the fluorescence spectral signals ([0130] [0131] [0142] [0151], extract pixel data, compress, assign tissue classification to the pixel data, and generate a two dimensional image of the cervix from the compressed data which includes color-coded regions representing specific tissue classifications of the cervix ([0115] [0151] [0154-0157] [0168-0171] [0175-0177], figs. 13-56).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al. in view of Bambot et al. Yang et al. disclose an apparatus and computer-based method for generating a two dimensional histological map of a biological specimen from a 3-dimensional hyperspectral data cube (abstract, col. 1 lines 52-60, col. 15 lines 42-56). Yang et al. further teach executing said procedure by normalizing fluorescence

Art Unit: 3737

spectral signals, extracting pixel data from the spectral signals, compressing the extracted pixel data, and classifying tissue into color-coded regions (col. 2 lines 14-67, col. 3 lines 1-62, col. 9 lines 12-47, col. 10 lines 49-67, col. 11 lines 39-58, col. 13 lines 36-53). Yang et al. however do not explicitly teach applying said method to cervical tissue. In the same field of endeavor, Bambot et al. disclose a method an apparatus including a computer program for generating a two dimensional histological map of a cervix which includes color-coded regions representing specific tissue classifications of the cervix from a 3-dimensional hyperspectral data cube by scanning the cervix, as set forth above (fig. 60A/B, ([0115] [0151] [0154-0157] [0168-0171] [0175-0178], figs. 13-56, claim 57). It would have therefore been obvious to one of ordinary skill in the art to use the cervical tissue based teaching by Bambot et al. to modify the teaching by Yang et al. for the purpose of generating a two-dimensional histological map of a cervix from a 3-dimensional hyperspectral data cube.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baisakhi Roy whose telephone number is 571-272-7139. The examiner can normally be reached on M-F (7:30 a.m. - 4p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/051,286

Art Unit: 3737

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.K.

BR

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

Page 6